



HALIMETER®

Interscan's Halimeter® is the internationally recognized standard instrument for measuring oral malodor. Utilized extensively in academic, research, and clinical settings, it belongs in your office, too.

As thousands of dentists have already discovered, managing your patients' complaints of chronic halitosis with only empirical treatment (dispensing rinse and tongue scrapers) is not sufficient — for them or for you! Chronic halitosis should be treated as any other dental problem, and a diagnostic work-up is essential. After all, fully 80 percent of patients who present with oral malodor will have a gum condition etiology.

- Within seconds, the Halimeter® can confirm the typical finding of volatile sulfur compounds (VSC — hydrogen sulfide, methyl mercaptan, dimethyl sulfide) in the breath, produced by anaerobic bacteria on the tongue.
- What about imaginary halitosis, an all too common finding, and one that is often disputed by the patient? A rigorous protocol of Halimeter® testing, organoleptic measurements, and tongue bacterial cultures will absolutely confirm or reject this possibility.
- What if there is apparent oral malodor, but it does not originate in the mouth? Halimeter® testing of nasal air and lung air samples will localize the source, giving you the information you need for further work-up and patient referral.
- And, for those patients whom you diagnose as having the most common condition — tongue dorsum VSC derived chronic halitosis — the Halimeter® is your tool for monitoring the progress of treatment.

You know from your own experience that patients are much more likely to elect a treatment protocol in the first place, if they get unbiased feedback from an electronic instrument.

So don't just dispense. Practice evidence-based dentistry.

Ethically diagnose and treat chronic halitosis — with the Halimeter.®

INSTRUMENT SPECIFICATIONS

Sensor Principle of Operation	Electrochemical voltammetric (U.S. Patent No. 4,017,373)
Accuracy	± 5 ppb
Lag Time	< 1 second
Pump	Vibrating armature diaphragm
Internal Tubing	1/4" OD x 1/8" ID (6.35 x 3.18 mm) Polyethylene/ethyl acetate co-polymer
Tube Fittings	Polybutylene and polyethylene
Rotameter	Body—Styrene-acrylonitrile Float—Type 304 stainless steel
Digital Display	4 digit, 0.375 in. (9.5 mm) liquid crystal. Readouts provided for instantaneous concentration of volatile sulfur compounds in parts per billion (ppb), peak value, and average of up to three VSC measurements. Countdown timers also provided, assuring optimum breath sampling technique.
Enclosure	Aluminum, EMC-shielded
Dimensions	4 1/2" H x 10" W x 10 1/2" D (114 x 254 x 267 mm)
Weight	8 lb (3.6 kg)
Analog Output	0 -400 mV = 0 -1999 ppb. Interface at 1/4" (6.35 mm) phone plug connection
Power	105 -125 VAC, 50/60 Hz, 1.5 A or 205 -240 VAC, 50/60 Hz, 0.75A (Switch provided inside unit, but specify when ordering.)
Calibration	Against standard gas mixture, or via Interscan's Electronic Calibration Service

TECHNICAL PAPERS OF INTEREST

Pratten J, Pasu M, Jackson G, Flanagan A, Wilson M. Modelling oral malodour in a longitudinal study. *Arch Oral Biol* 2003; 48(11):737-43.

Seemann R, Passet G, Zimmer S, Roulet JF. The effect of an oral hygiene program on oral levels of volatile sulfur compounds (VSC). *J Clin Dent* 2001; 12(4):104-107

Frascella J, Gilbert RD, Fernandez P, Hendler J. Efficacy of a chlorine dioxide-containing mouthrinse in oral malodor. *Compend Contin Educ Dent* 2000; 21(3):241-244

Neiders M, Ramos B. Operation of bad breath clinics. *Quintessence Int* 1999; 30(5):295-301

Ben-Aryeh H, Horowitz G, Nir D, Laufer D. Halitosis: an interdisciplinary approach. *Am J Otolaryngol* 1998; 19(1):8-11

Delanghe G, Ghyselen J, Feenstra L, van Steenberghe D. Experiences of a Belgian multidisciplinary breath odour clinic. *Acta Otorhinolaryngol Belg* 1997; 51(1):43-48

Richter JL. Diagnosis and treatment of halitosis. *Compend Contin Educ Dent* 1996; 17(4):370-386

Touyz LZ. Oral malodor - a review. *J Can Dent Assoc* 1993; 59(7):607-610



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RECORDING OPTIONS

While the peak-hold and averaging features of the Halimeter® are sufficient for most clinical applications, Interscan offers three alternatives for those who wish to record or digitize their measurement results.

- An economically-priced strip chart recorder (Penwriter). This simple approach provides an immediate hard copy to show/give to the patient, and to keep in the patient's file.
- Our Nomad Data Logger connects to the Halimeter® and digitizes and stores the data. After breath sampling, the Nomad is connected to a computer, and the information is downloaded. Many useful reports, including time-history graphs, can be obtained. Patient files can be archived, as well.
- Hali-Soft, built into the Halimeter®, requires that the unit be connected to a computer while sampling is occurring. A real-time graph (live trending) of the sampling is provided, along with peak values, and averages. Patient records are archived in a convenient format.

Please contact Interscan or your distributor for further details, and ordering information.

WHY DO HALITOSIS TREATMENT IN YOUR OFFICE?

Because it's one of the most cost-effective practice builders you can find!

Halitosis treatment

- Is a fee-for-service procedure
- Requires little doctor time
- Offers great patient success

Stand out from the crowd, and help your patients solve a pressing personal problem. What's more, you'll bring in new patients—initially attracted by halitosis treatment—who will need a variety of other services, as well.

TAKE ADVANTAGE OF OUR HALIMETER.COM WEBSITE

It's the international clearinghouse for information on halitosis treatment. Surf on over and you'll find

- Detailed technical information on the Halimeter®
- Links to all known products used in the treatment of chronic halitosis
- Articles by experts on treatment protocols, and on how to market halitosis treatment to your patients
- Links to websites of Halimeter® users all over the world
- Two message boards—one for the general public, the other for dental and medical professionals